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Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p	Adjusted 480p	Range	Description
1	VERSION 0	VER	0		--			0-1	HeadsUp display of version information (NS)
1	VERSION 1	DMY1	189		--			0-255	
2	3D-COMB 0	NRMD	1		1 (0)			0-3	(NS)
2	3D-COMB 1	CLKS	1		--			0-3	
2	3D-COMB 2	NSDS	0		--			0-3	(NS)
2	3D-COMB 3	MSS	0		--			0-3	(NS)
2	3D-COMB 4	KILS	1		--			0-3	(NS)
2	3D-COMB 5	FRZE	0		--			0-1	Freeze Image (NS)
2	3D-COMB 6	EXCS	1		--			0-3	
2	3D-COMB 7	CDL	3		--			0-7	
2	3D-COMB 8	DYCO	2		--			0-15	
2	3D-COMB 9	DYGA	10		--			0-15	
2	3D-COMB 10	DCCO	5		--			0-15	
2	3D-COMB 11	DCGA	5		--			0-15	
2	3D-COMB 12	WSC	1		--			0-3	
2	3D-COMB 13	WSS	0		--			0-1	
2	3D-COMB 14	VAPG	2(0)		0 (2)			0-7	Sets vert resolution for 3-d comb filter
2	3D-COMB 15	VAPI	4(0)		0 (4)			0-31	Sets vert resolution for 3-d comb filter
2	3D-COMB 16	TEST	0		--			0-1	Reverse Image Test Mode (NS)
2	3D-COMB 17	YPFT	3		--			0-3	
2	3D-COMB 18	YPFG	7(5)		--			0-15	
2	3D-COMB 19	SEDC	0		--			0-1	
2	3D-COMB 20	SEDY	1		--			0-1	
2	3D-COMB 21	YHCO	1		--			0-3	
2	3D-COMB 22	YHCG	0		--			0-1	
2	3D-COMB 23	SYSP	0		--			0-3	
2	3D-COMB 24	TES2	0		--			0-7	(NS)

**Left TwinView window settings (?)**

3	2103-1 0	YLEV	21		21 (20)			0-63	Chroma level (separate vid5-6/DVI, others)
3	2103-1 1	CLEV	26		26 (17)			0-63	Luminance level (separate vid5-6/DVI, others)
3	2103-1 2	SCON	10		10 (9)	11 (11)	0-15	Sub-Picture Contrast (separate RF, Vid 1-4)	
3	2103-1 3	SCOL	6		--		0-15	Sub-Picture Color Saturation (separate RF, Vid 1-4)	
3	2103-1 4	SHUE	9		9 (8)		0-15	Sub-Hue (Tint) (separate RF, Vid 1-4)	
3	2103-1 5	YDLY	0		--		0-3	Chroma delay (separate RF, Vid 1-4)	
3	2103-1 6	SHAP	4		4 (8)		0-15	Sub-Picture Sharpness (separate RF, Vid1-4, VId5-6, DVI, MemStick)	
3	2103-1 7	SHFO	3		3 (0)		0-3	(separate RF, Vid1-4, VId5-6, DVI, MemStick)	
3	2103-1 8	PREO	3		--		0-3	(separate RF, Vid1-4, VId5-6, DVI, MemStick)	
3	2103-1 9	BPFO	3		--		0-3		
3	2103-1 10	BPFQ	2		--		0-3		
3	2103-1 11	BPSW	1		1 (0)		0-1	(separate RF, Vid 1-4)	
3	2103-1 12	TRAP	0		--		0-1		
3	2103-1 13	LPF	1		--		0-1		
3	2103-1 14	AFCG	0		--		0-1	AFC Loop Gain (separate RF, Vid1-4, others)	
3	2103-1 15	CDMD	3		--		0-3	(separate RF, Vid1-4, others)	
3	2103-1 16	SSMD	0		--		0-3	(separate RF, Vid1-4, others)	
3	2103-1 17	HMSK	1		--		0-1	(separate RF, Vid1-4, VId5-6, DVI, MemStick)	
3	2103-1 18	HALI	0		--		0-1		
3	2103-1 19	PPHA	7		--		0-15	horizontal picture shift (separate RF, vid 1-4, Vid 5-6, DVI, MemStick)	
3	2103-1 20	CBO1	31		31 (28)		0-63	Color Offset (separate Vid5-6, MemStick, others)	
3	2103-1 21	CR01	46		46 (42)		0-63	Color Offset (separate Vid5-6, MemStick, others)	
3	2103-1 22	CB02	26		--		0-63	Color Offset (DVI)	
3	2103-1 23	CR02	42		--		0-63	Color Offset (DVI)	
3	2103-1 24	ATPD	0		--		0-3	based on BLK setting	

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3	2103-1	25	DCTR	0	--			0-3	based on BLK setting
<b>Right Twinview window settings</b>									
4	2103-2	0	YLEV	29		29 (41)		0-63	Chroma level - S-Video ?
4	2103-2	1	CLEV	20		20 (31)		0-63	Luminance level - S-Video ?
4	2103-2	2	SCON	12		--		0-15	Sub-Picture Contrast - DVI? Right Twinview
4	2103-2	3	SCOL	5		--		0-15	Sub-Picture Color Saturation - DVI? Right Twinview
4	2103-2	4	SHUE	9		--		0-15	Sub-Hue (Tint) - DVI? Right Twinview
4	2103-2	5	YDLY	0		--		0-3	Chroma delay - S-Video ?
4	2103-2	6	SHAP	6		--		0-15	Sub-Picture Sharpness
4	2103-2	7	SHFO	0		--		0-3	
4	2103-2	8	PREO	3		--		0-3	
4	2103-2	9	BPFO	3		--		0-3	
4	2103-2	10	BPFQ	0		--		0-3	
4	2103-2	11	BPSW	1		--		0-1	
4	2103-2	12	TRAP	0		--		0-1	
4	2103-2	13	LPF	1		1 (0)		0-1	
4	2103-2	14	AFCG	1		--		0-1	AFC Loop Gain
4	2103-2	15	CDMD	3		--		0-3	
4	2103-2	16	SSMD	0		--		0-3	
4	2103-2	17	HMSK	0		--		0-1	
4	2103-2	18	HALI	0		--		0-1	
4	2103-2	19	PPHA	7		--		0-15	Geometry - horizontal position shift. DVI?
4	2103-2	20	CB01	37		--		0-63	
4	2103-2	21	CR01	33		--		0-63	
5	2170P-1	0	YOSW	0	0 (1)			0-1	(separate 480i, DVI, MemStick)
5	2170P-1	1	TCOF	0	--			0-1	(NS)
5	2170P-1	2	YOF	7	7 (0)			0-15	(separate DRC, Vid5-6 [separate for vid formats], DVI, MemStick)
5	2170P-1	3	CBOF	46	49 (31)			0-63	(separate DRC, Vid5-6 [separate for vid formats], DVI, MemStick)
5	2170P-1	4	CROF	48	46 (31)			0-63	(separate DRC, Vid5-6 [separate for vid formats], DVI, MemStick)
5	2170P-1	5	CBOP	36		--		0-63	
5	2170P-1	6	CROP	37		--		0-63	
5	2170P-1	7	SBRT	20	29	--	29 (29)	0-63	Sub-Picture Brightness (Black Level)
5	2170P-1	8	RDRV	30		--		0-63	Red Amp. - (upper level)
5	2170P-1	9	GDRV	23	21	--	21 (21)	0-63	Green Amp - (upper level) use w/BDRV to adjust D65 white
5	2170P-1	10	BDRV	19	10	--	10 (10)	0-63	Blue Amp - (upper level) use w/GDRV to adjust D65 white
5	2170P-1	11	RCUT	30		--		0-63	Red bias/cutoff (lower level)
5	2170P-1	12	GCUT	27	20	--	20 (20)	0-63	Green bias/cutoff - use w/BCUT to adjust D65 dark gray
5	2170P-1	13	BCUT	30	10	--	10 (10)	0-63	Blue bias/cutoff - use w/GCUT to adjust D65 dark gray
5	2170P-1	14	WBSW	1		--		0-1	Color Temp
5	2170P-1	15	SBOF	7		--		0-15	Color Temp
5	2170P-1	16	RDOF	31		--		0-63	Color Temp
5	2170P-1	17	GDOF	34		--		0-63	Color Temp
5	2170P-1	18	BDOF	45		--		0-63	Color Temp
5	2170P-1	19	RCOF	31		--		0-63	Color Temp
5	2170P-1	20	GCOF	37		--		0-63	Color Temp
5	2170P-1	21	BCOF	63		--		0-63	Color Temp
5	2170P-1	22	DCOL	0		--		0-3	Color Temperature
6	2170P-2	0	PICO	1		--		0-1	(NS)
6	2170P-2	1	RGBS	7		--		0-7	RGB electron guns: 7= all on (normal) 6= Blue off 5= Green off 4= Red only 3= Red off 2= Green only 1= Blue only 0= all off
6	2170P-2	2	BLKB	3		--		0-3	

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6	2170P-2	3	RGLB	2	--			0-3	
6	2170P-2	4	YLMT	3	--			0-3	
6	2170P-2	5	AGNG	0	--			0-3	L-R Centering (NS)
6	2170P-2	6	AKBO	0	--			0-1	(NS)
6	2170P-2	7	CLPP	3	--			0-3	
6	2170P-2	8	CLPG	0	--			0-1	
6	2170P-2	9	CLPS	0	--			0-1	
6	2170P-2	10	PPAD	3	--			0-7	
6	2170P-2	11	SYNP	0	--			0-1	
6	2170P-2	12	HVBT	0	--			0-1	

2170P-3 Settings 0-16 dependent on combination of picture mode, line input (RF, Vid1-4, Vid5-6, DVI, MemStick [separate picture, menu, movie], Twinview), and video (720p, 1080i, VGA[DVI only])

7	2170P-3	0	SYSM	3		2 (1)		0-3	Special Sharpness. 0/1=Peaky boost, 2=Broad boost, 3=Flat
7	2170P-3	1	VMLV	0		--		0-15	Scanning Velocity Modulation (NS)
7	2170P-3	2	VMCR	0		--		0-3	Scanning Velocity Modulation
7	2170P-3	3	VMLM	3		--		0-3	Scanning Velocity Modulation
7	2170P-3	4	VMFO	0		1 (1)		0-3	Scanning Velocity Modulation
7	2170P-3	5	VMDL	15		7 (5)		0-15	Scanning Velocity Modulation
7	2170P-3	6	SHOF	0(2)		0 (3)		0-3	Sharpness
7	2170P-3	7	SHFO	1		--		0-1	
7	2170P-3	8	PROV	3		0 (0)		0-3	
7	2170P-3	9	F1LV	1(0)		1 (0)		0-3	
7	2170P-3	10	LTLV	3(0)		0 (2)		0-3	Edge Enhance. 0=Off
7	2170P-3	11	LTMD	1		--		0-1	
7	2170P-3	12	CTLV	3(0)		--		0-3	
7	2170P-3	13	UBOF	1		2 (2)		0-7	Brightness 1080i/480p/480i input dependent
7	2170P-3	14	UCOF	1(0)		0 (2)		0-7	Color 1080i/480p/480i input dependent
7	2170P-3	15	UHOF	0		--		0-3	Hue 1080i/480p/480i input-dependent
7	2170P-3	16	MIDE	22(20)		16 (10)		0-63	

2170P-3 Settings 17-20 depending on picture mode (Vivid, Standard, etc...)

7	2170P-3	17	VM	3(0)		0 (3)		0-3	
7	2170P-3	18	VMH	15(13)		13 (15)		0-15	
7	2170P-3	19	VMM	8		--		0-15	
7	2170P-3	20	VML	4		--		0-15	
7	2170P-3	21	VGAP	5		--		0-15	
7	2170P-3	22	VGAS	5		--		0-15	
7	2170P-3	23	VGAB	5		--		0-15	
7	2170P-3	24	VGAC	5		--		0-15	
7	2170P-3	25	VGAV	5		--		0-15	
8	2170P-4	0	YCON	1		--		0-1	Memory Stick = 0

2170P-4 Settings 1-3 depending on inputs (DRC, Vid5/6, DVI, MemStick, passthru)

8	2170P-4	1	SPIC	7	9	--		0-15	Sub-Picture. 1080i/480p/480i input-dependent
8	2170P-4	2	SCOL	32		32 (33)	32 (32)	0-63	Sub-Color Saturation. 1080i/480p/480i input-dependent
8	2170P-4	3	SHUE	30		--		0-63	Sub-Hue 1080i/480p/480i input-dependent
8	2170P-4	4	SPIO	6	8	--		0-15	Sub-Picture Offset
8	2170P-4	5	SCLO	8		--		0-15	Sub-Color Saturation Offset
8	2170P-4	6	SHUO	7		--		0-15	Sub-Hue Offset

2170P-4 Settings 7 - 12 dependent on picture mode (Vivid, Standard etc...)

8	2170P-4	7	UPIC	48(31)		31 (48)		0-63	Picture.
8	2170P-4	8	UBRT	31		--		0-63	Brightness.
8	2170P-4	9	UCOL	31		--		0-63	Color.
8	2170P-4	10	UHUE	31		--		0-63	Hue.
8	2170P-4	11	USHP	29(31)		31 (29)		0-63	Sharpness.

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8	2170P-4 12	UTMP	1	--	--	13 (13)	5 (5)	0-3	Color Temp
8	2170P-4 13	RYR	8	13	--	15 (15)	4 (4)	0-15	Red correction.
8	2170P-4 14	RYB	9	15	--	5 (5)	0-15	Red correction.	
8	2170P-4 15	GYR	9	5	--	5 (5)	0-15	Green correction	
8	2170P-4 16	GYB	6	4	--	4 (4)	0-15	Green correction	
GAMM dependent on combination of picture mode, line input, and video mode (480i/p, 720, 1080), settings 18-21 changed by GAMM table setting									
8	2170P-4 17	GAMM	1(0)		0 (1)		0-3	0-3	Select preconfigured gamma table. Improve contrast. Try 0 (?)
8	2170P-4 18	GAMS	1(0)		0 (8)		0-15	0-15	Gamma
8	2170P-4 19	GAMR	6(0)		0 (6)		0-15	0-15	Gamma red
8	2170P-4 20	GAMG	6(0)		0 (6)		0-15	0-15	Gamma green
8	2170P-4 21	GAMB	6(0)		0 (6)		0-15	0-15	Gamma blue
BLK dependent on combination of picture mode, line input, and video mode (480i/p, 720, 1080), settings 23-25/27/30 changed by BLK table setting									
8	2170P-4 22	BLK	2(0)		0 (2)		0-3	0-3	Modify luminance curve. Try 0 (???)
8	2170P-4 23	DCTR	7(0)		0 (7)		0-15	0-15	
8	2170P-4 24	APED	1(0)		0 (1)		0-3	0-3	
8	2170P-4 25	DSBO	7		--		0-15	0-15	
8	2170P-4 26	IDSW	0		--		0-7	0-7	ZOOM Modes (NS)
8	2170P-4 27	ABLM	0		--		0-3	0-3	Automatic Background or Brightness Limiter
8	2170P-4 28	ABLT	0		0 (7)		0-15	0-15	Automatic Background or Brightness Limiter
8	2170P-4 29	SPOF	0		--		0-31	0-31	
8	2170P-4 30	DPSQ	1		--		0-1	0-1	
8	2170P-4 31	LRGB	3		--		0-15	0-15	OnScreenDisplay Intensity
Horizontal line settings									
9	2170D-1 0	VPOS	24		--	31 (31)	0-63	0-63	Geometry - Vertical Position
9	2170D-1 1	VSIZ	38	31	--		0-63	0-63	Geometry - Vertical Size
9	2170D-1 2	VSZO	0		--		0-63	0-63	Geometry - Vertical size (unused)
9	2170D-1 3	VLIN	7		--		0-15	0-15	Geometry - Vertical Linearity (WideZoom separate)
9	2170D-1 4	VSCO	10		--		0-15	0-15	Geometry - Vertical Linearity (WideZoom separate)
9	2170D-1 5	VCEN	12	8	--	8 (8)	0-63	0-63	Geometry - Vertical top/bottom bow
9	2170D-1 6	VPIN	18		18 (14)		0-31	0-31	Geometry - Vertical top/bottom pin cushion (Vcomp separate)
9	2170D-1 7	MVPN	0		--		0-3	0-3	Geometry - Middle pincusion
9	2170D-1 8	NSCO	31	38	--	38 (38)	0-63	0-63	Geometry - Rotation/Tilt
9	2170D-1 9	HTPZ	22		--		0-31	0-31	Geometry - Horz trapezoid
9	2170D-1 10	MHTZ	0		--		0-3	0-3	Geometry - Middle Horizontal Trapezoid
9	2170D-1 11	ZOOM	0		--		0-1	0-1	Zoom Switch (0=normal, 1 = Zoom/WideZoom)
2170D-1 Settings 12-14 dependent on WideZoom, Zoom, 480Full, 1080Full, 1080vcomp, 480vcomp									
9	2170D-1 12	APSW	0		1 (1)		0-1	0-1	Aspect Switch (0=1080i, 1=others)
9	2170D-1 13	ASPT	0		3 (3)		0-63	0-63	Geometry - Vertical top/bottom stretch (separate zoom, normal, 480, 1080)
9	2170D-1 14	SCRL	31		--		0-63	0-63	Geometry - Vertical position offset(separate zoom, normal, 480, 1080)
9	2170D-1 15	UVLN	0		--		0-15	0-15	Geometry - Vertical upper linearity (WideZoom separate)
9	2170D-1 16	LVLN	0		--		0-15	0-15	Geometry - Vertical lower linearity (WideZoom separate)
Vertical line settings									
10	2170D-2 0	HCNT	35	40	--	40 (40)	0-63	0-63	Geometry - Horz linearity with left-right shift
10	2170D-2 1	HPOS	29	31	31 (31)		0-63	0-63	Geometry - Horizontal Position (1080i separate)
10	2170D-2 2	HSIZ	47		--		0-63	0-63	Geometry - Horizontal Size (WideZoom separate)
10	2170D-2 3	SLIN	3		--		0-15	0-15	Geometry - Horizontal stretch (WideZoom separate)
10	2170D-2 4	MPIN	10	8	--	8 (8)	0-15	0-15	Geometry - Middle Pincushion (WideZoom separate)
10	2170D-2 5	PIN	12	14	--	14 (14)	0-63	0-63	Geometry - Pincushion (WideZoom separate)
10	2170D-2 6	PINO	7		--		0-15	0-15	Geometry - Pincushion (WideZoom,Zoom,480F,1080F,Vcomp separate)
10	2170D-2 7	UCP	38	34	--	34 (34)	0-63	0-63	Geometry - Upper corner Pin correction (WideZoom separate)
10	2170D-2 8	LCP	45	42	--	42 (42)	0-63	0-63	Geometry - Lower corner Pin correction (WideZoom separate)
10	2170D-2 9	UXCG	0		--		0-3	0-3	Geometry - Upper Extra Corner Pin Gain
10	2170D-2 10	LXCG	0		--		0-3	0-3	Geometry - Lower Extra Corner Pin Gain

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10	2170D-2 11	UXCP	2		--			0-3	Geometry - Upper Extra Corner Pin Position
10	2170D-2 12	LXCP	2		--			0-3	Geometry - Lower Extra Corner Pin Position
10	2170D-2 13	XCPP	0		--			0-1	Geometry - Extra Corner Pin Polarity
10	2170D-2 14	PPHA	16	14	--	14 (14)	0-63	Geometry - Pincushion phase (trapezoid) (WideZoom separate)	
10	2170D-2 15	VANG	32	45	--	45 (45)	0-63	Geometry - Skew correction, vertical line (\ \ ,     , //  )	
10	2170D-2 16	LANG	18	10	--	10 (10)	0-63	Geometry - vertical line angle linearity (\ \ ,     , //  )	
10	2170D-2 17	VBOW	28	28	--	28 (28)	0-63	Geometry - Horz (vert lines) bow	
10	2170D-2 18	LBOW	24	24	--	24 (24)	0-63	Geometry - Horz (vert lines) bow linearity	
11	2170D-3 0	HBLK	1		--		0-1	Horizontal blanking on/off	
11	2170D-3 1	LBLK	50		51 (51)		0-63	Left Blanking Shutter (1080i separate)	
11	2170D-3 2	RBLK	31		27 (27)		0-63	Right Blanking Shutter (1080i separate)	
11	2170D-3 3	VBLK	1		--		0-1	Vertical Blanking Switch (Zoom WideZoom, Full, Vcomp separate)	
11	2170D-3 4	TBLK	4		2 (2)		0-15	Top Blanking Shutter (WideZoom, Zoom, 480F, 1080F, 1080Vcomp/480Vcomp separate)	
11	2170D-3 5	BBLK	6		8 (8)		0-15	Bot Blanking Shutter (WideZoom, Zoom, 480F, 1080F, 1080Vcomp/480Vcomp separate)	
11	2170D-3 6	AFCM	2		3 (3)		0-3	AFC Loop Gain (1080i separate)	
11	2170D-3 7	JUMP	0		--		0-1	Reference Pulse Jump Switch (1080i separate)	
11	2170D-3 8	VDJP	1		0 (0)		0-1	Vertical Drive Jump Switch (WideZoom, Zoom, 480, 1080 separate)	
11	2170D-3 9	VDST	0		--		0-1	Vertical Drive Start Switch (1080i separate)	
11	2170D-3 10	AKBT	16		20 (20)		0-31	AKB Timing (WideZoom, Zoom, 480, 1080 separate)	

2170D-4 Settings 0-5 have separate Vcomp and other settings

12	2170D-4 0	QPAM	22		--		0-63	DQP Amp Level
12	2170D-4 1	QPAV	41		--		0-63	DQP Amp Vertical Modulation
12	2170D-4 2	QPAP	6		--		0-15	DQP Amp Tilt
12	2170D-4 3	QPDC	43		--		0-63	DQP DC Level
12	2170D-4 4	QPDV	55		--		0-63	DQP DC Level Vertical Modulation
12	2170D-4 5	QPDP	6		--		0-15	DQP DC Level Tilt
12	2170D-4 6	CPY1	0		--		0-1	Copy Full to Vcomp/normal (NS)
12	2170D-4 7	DF	34		--		0-63	Dynamic focus adjustments in the corners (DF Phase)
12	2170D-4 8	DQP	30		--		0-63	DQP Phase
13	2170D-5 0	VFRQ	1		--		0-3	Vertical Frequency
13	2170D-5 1	VON	1		--		0-1	Vertical Drive On
13	2170D-5 2	EWDC	0		--		0-1	Pin DC Level Shift
13	2170D-5 3	MS15	0		--		0-1	FH=15K@MS Mode
13	2170D-5 4	HFRQ	80		--		0-255	Horizontal Frequency (Fh setting@multi-scan)
13	2170D-5 5	HFRX	25		--		0-63	Reciprocal Fh@multi-scan
13	2170D-5 6	VMPS	0		--		0-1	Vertical Multiscan Mode
13	2170D-5 7	INTR	0		--		0-1	Freerun Interlace Setting
13	2170D-5 8	VLNL	0		--		0-3	Vertical Linearity (Vertical # of Line(L))
13	2170D-5 9	VLNH	0		--		0-255	Vertical Linearity (Vertical # of Line(H))
13	2170D-5 10	AGCS	0		--		0-1	Vertical AGC Mode

Convergence of vertical lines (horizontal lines must be converged by using permalloy magnets!)

2 setting modes, Standard (4:3) and Full/Wide

14	D-CONV 0	YBWU	38		--		0-63	Upper Ybow
14	D-CONV 1	YBWL	38	42	--	42 (42)	0-63	Lower Ybow
14	D-CONV 2	RSAP	37	35	--	35 (35)	0-63	Right H Amp (offset)
14	D-CONV 3	RUMB	20	0	--	0 (0)	0-63	Right Upper Middle Bow
14	D-CONV 4	RUBW	29		--		0-63	Right Upper Bow
14	D-CONV 5	RLMB	15	0	--	0 (0)	0-63	Right Lower Middle Bow
14	D-CONV 6	RLBW	13		--		0-63	Right Lower Bow
14	D-CONV 7	LSAP	41	37	--	37 (37)	0-63	Left H Amp (offset)
14	D-CONV 8	LUMB	36	20	--	20 (20)	0-63	Left Upper Middle Bow
14	D-CONV 9	LUBW	46		--		0-63	Left Upper Bow
14	D-CONV 10	LLMB	22	0	--	0 (0)	0-63	Left Lower Middle Bow

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Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p	Adjusted 480p	Range	Description
14	D-CONV	11	LLBW	0	--			0-63	Left Lower Bow
14	D-CONV	12	CADJ	23	--			0-63	Offset Adjust (entire screen, all modes)
14	D-CONV	13	HVCA	63	--			0-63	H Gain (middle of left and right sides, all modes)
14	D-CONV	14	SRSP	63	--			0-63	Sub Right H Amp
14	D-CONV	15	SRUM	31	20	--	20 (20)	0-63	Sub Right Upper Middle Bow
14	D-CONV	16	SRUB	63	--			0-63	Sub Right Upper Bow
14	D-CONV	17	SRLM	31	--			0-63	Sub Right Lower Middle Bow
14	D-CONV	18	SRLB	63	--			0-63	Sub Right Lower Bow
14	D-CONV	19	SLSP	57	--			0-63	Sub Left H Amp
14	D-CONV	20	SLUM	31	25	--	25 (25)	0-63	Sub Left Upper Middle Bow
14	D-CONV	21	SLUB	63	--			0-63	Sub Left Upper Bow
14	D-CONV	22	SLLM	31	24	--	24 (24)	0-63	Sub Left Lower Middle Bow
14	D-CONV	23	SLLB	63	--			0-63	Sub Left Lower Bow
14	D-CONV	24	CPY2	0	--			0-1	Copy Full to Vcomp/Normal)
15	LANDING	0	LT	180	--			0-255	Left Top LCC Control
15	LANDING	1	LB	147	--			0-255	Left Bot LCC Control
15	LANDING	2	RT	124	--			0-255	Right Top LCC Control
15	LANDING	3	RB	110	--			0-255	Right Bot LCC Control
15	LANDING	4	EWSP	5	--			0-15	EW (user) step
15	LANDING	5	ENSW	0	--			0-1	Environment Correct Switch (0=On, 1=Off)
15	LANDING	6	TESW	0	--			0-1	Thermo Correct Switch (0=On, 1=Off)
15	LANDING	7	DHMT	0	--			0-1	DH Mute (1=Mute)
15	LANDING	8	LDVM	0	--			0-1	Altitude Landing Control
15	LANDING	9	LVSW	0	--			0-1	Altitude Landing compensation Switch (0=Auto, 1=Manual)
15	LANDING	10	LVPH	102	--			0-255	Altitude landing phase control
LANDING Settings 11-14 depend on the LDVM setting and WideZoom/other modes									
15	LANDING	11	HSZO	0	--			0-15	H-Size offset
15	LANDING	12	SLNO	0	--			0-15	SLIN Offset
15	LANDING	13	MPNO	0	--			0-15	MPIN Offset
15	LANDING	14	PINO	0	--			0-15	PIN Offset
16	CXA2151	0	MTRX	0	--			0-3	(NS)
16	CXA2152	1	GAIN	0	--			0-3	(Separate passthru, others)
16	CXA2153	2	FIXS	0	--			0-3	(Separate Vid5, Vid6, DVI, MemStick, others)
16	CXA2154	3	CBGN	5	--			0-15	(Separate passthru, others)
16	CXA2155	4	CRGN	4	--			0-15	(Separate passthru, others)
16	CXA2156	5	YGN	4	--			0-15	(Separate passthru, others)
16	CXA2157	6	VTC	0	--			0-3	
16	CXA2158	7	HTC	1	--			0-1	(NS)
16	CXA2159	8	HWID	1	--			0-3	
16	CXA2160	9	HSEP	1	--			0-1	
16	CXA2161	10	HMSK	1	--			0-1	(NS) (Separate 1080i, others)
16	CXA2162	11	FRGB	0	--			0-1	(Separate Vid5, Vid6, DVI, MemStick, others)
17	MID1	0	DHPH	108	--			0-255	COM - Horizontal position
17	MID1	1	DVPH	20	--			0-63	COM - Vertical position
17	MID1	2	DHAR	240	--			0-255	
17	MID1	3	DVAR	135	--			0-255	
17	MID1	4	DHPW	55	--			0-63	
17	MID1	5	DVPW	5	--			0-7	
17	MID1	6	DYCD	0	0 (1)			0-63	(Separate Single[480i, others], Twin, Freeze, Fav, Index)
17	MID1	7	DYSD	1	2 (4)			0-15	
MID1 settings 8,10 dependent on Single (separate VGA Normal, Normal Wide, Other Normal, Other Wide), Favorites, Index									
MID1 settings 9, 11 dependent on Single (separate 480i/p, VGA, Wide), Favorites, Index									
17	MID1	8	MDHP	0	37	0 (156)	37 (37)	0-255	COM - Horizontal position. Input-dependent.

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Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p	Adjusted 480p	Range	Description
17	MID1	9	MDVP	0	0	30 (30)	35 (35)	0-255	COM - Vertical position. Input-dependent.
17	MID1	10	MDHS	240	226	240 (162)	226 (226)	0-255	COM - Horizontal size for anamorphic 16x9
17	MID1	11	MDVS	135	130	120 (120)	117 (117)	0-255	COM - Vertical size for anamorphic 16x9
17	MID1	12	MLHP	36	--	--	--	0-255	Horizontal position (separate Twin/Freeze, Favorites, Index)
17	MID1	13	MLVP	8	--	--	--	0-255	Vertical position (separate Twin/Freeze, Favorites, Index)
17	MID1	14	SDHP	167	--	--	--	0-255	Favorites Window Horizontal Position
17	MID1	15	SDVP	5	--	--	--	0-255	Favorites Window Vertical Position
17	MID1	16	SDHS	115	--	--	--	0-255	Favorites Window Horizontal Size
17	MID1	17	SDVS	79	--	--	--	0-255	Favorites Window Vertical Size
17	MID1	18	PDHP	0	--	--	--	0-255	
17	MID1	19	PDVP	0	--	--	--	0-255	
17	MID1	20	PDHS	0	--	--	--	0-255	
17	MID1	21	PDVS	0	--	--	--	0-255	
17	MID1	22	DPSW	0	--	--	--	0-1	separate 1080i
17	MID1	23	MDLO	12	--	--	--	0-63	
17	MID1	24	BCOL	1	--	--	--	0-15	Color saturation (separate Normal, others, MemStick)
17	MID1	25	DYSS	1	--	--	--	0-1	
17	MID1	26	OSDH	32	--	--	--	0-63	Index Channel # Horizontal Position
17	MID1	27	OSDV	16	--	--	--	0-63	Index Channel # Vertical Position
<b>480i picture inside window (separate normal, wide, twin-left, twin-right, freeze, favorites, index main, index sub)</b>									
18	MID2	0	DRHP	117	--	117 (154)	--	0-255	DRC - Horizontal position for 4x3 pattern
18	MID2	1	DRHS	180	--	180 (162)	--	0-255	DRC - Horizontal size for 4x3 pattern
18	MID2	2	DRVVP	37	--	--	--	0-63	DRC - Vertical position for 4x3 pattern
18	MID2	3	DRVSV	120	--	--	--	0-255	DRC - Vertical size for 4x3 pattern
<b>480p/720p/1080i inside window (separate vid modes, normal, wide, twinviews, etc..)</b>									
19	MID3	0	VDHP	107	--	152 (145)	--	0-255	Horizontal Position
19	MID3	1	VDHS	240	--	240 (221)	--	0-255	Horizontal Size
19	MID3	2	VDVE	19	--	37 (19)	--	0-63	Vertical Position
19	MID3	3	VDVS	135	--	120 (135)	--	0-255	Vertical Size
19	MID3	4	VDVO	0	--	--	--	0-3	(separate video modes)
19	MID3	5	VCPO	72	--	122 (72)	--	0-255	(separate video modes)
19	MID3	6	VCWD	3	--	--	--	0-7	(separate video modes)
19	MID3	7	VYCD	0	--	--	--	0-63	(separate video modes)
19	MID3	8	VSTP	136	--	126 (136)	--	0-255	(separate video modes)
19	MID3	9	VSTT	0	--	--	--	0-15	(separate video modes)
19	MID3	10	VHSC	130	--	--	--	0-255	(separate video modes)
19	MID3	11	VFRV	0	--	--	--	0-1	(separate video modes)
20	MID5	0	POP	22(20)	--	16 (10)	--	0-63	
20	MID5	1	MHLY	0	--	1 (1)	--	0-3	L/E - Horz Y lo pass filter coef. Set to 0 (?)
20	MID5	2	MHLCL	0	--	3 (3)	--	0-3	
20	MID5	3	MVLY	0	--	--	--	0-3	L/E - Vert Y lo pass filter coef. Keep at 0.
20	MID5	4	MVLCL	0	--	--	--	0-3	
20	MID5	5	MHYR	0	--	0 (2)	--	0-3	
20	MID5	6	MHYL	1(0)	--	0 (2)	--	0-3	L/E - H enhance Y clip level. Set to 0 (?)
20	MID5	7	MHYE	7(0)	--	4 (4)	--	0-7	
20	MID5	8	MHYO	0	--	1 (1)	--	0-1	
20	MID5	9	MHCR	1(0)	--	--	--	0-3	
20	MID5	10	MHCL	1(0)	--	--	--	0-3	
20	MID5	11	MHCE	4(0)	--	--	--	0-7	
20	MID5	12	MHCO	1(0)	--	--	--	0-1	
20	MID5	13	MVYR	0	--	0 (1)	--	0-3	
20	MID5	14	MVYL	1	--	--	--	0-3	
20	MID5	15	MVYE	4(1)	--	2 (3)	--	0-7	

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Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p	Adjusted 480p	Range	Description
20	MID5	16	MVCR	1(0)	--	--	--	0-3	
20	MID5	17	MVCL	1(0)	--	--	--	0-3	
20	MID5	18	MVCE	4(0)	--	--	--	0-7	
20	MID5	19	SHLY	0	--	--	--	0-7	
20	MID5	20	SHLC	0	--	--	--	0-7	
20	MID5	21	SVLY	0	--	--	--	0-7	
20	MID5	22	SVLC	0	--	--	--	0-7	
20	MID5	23	SHYR	0	--	--	--	0-3	
20	MID5	24	SHYL	0	--	--	--	0-3	
20	MID5	25	SHYE	0	--	--	--	0-7	
20	MID5	26	SHYO	0	--	--	--	0-1	
20	MID5	27	SHCR	0	--	--	--	0-3	
20	MID5	28	SHCL	0	--	--	--	0-3	
20	MID5	29	SHCE	0	--	--	--	0-7	
20	MID5	30	SHCO	0	--	--	--	0-1	
20	MID5	31	SVYR	0	--	--	--	0-3	
20	MID5	32	SVYL	0	--	--	--	0-3	
20	MID5	33	SVYE	0	--	--	--	0-7	
20	MID5	34	SVCR	0	--	--	--	0-3	
20	MID5	35	SVCL	0	--	--	--	0-3	
20	MID5	36	SVCE	0	--	--	--	0-7	
21	CXA3506R	0	MCON	0	--	0-255	(separate 480i, others)		
21	CXA3506R	1	SCOR	128	--	0-255	(separate 480i, others)		
21	CXA3506R	2	SCOG	138	--	0-255	(separate 480i, others)		
21	CXA3506R	3	SCOB	133	--	0-255	(separate 480i, others)		
21	CXA3506R	4	RGB	0	--	0-1	(separate 480i, others)		
22	AUDIO	0	ASYS	0	--	--	0-1		
22	AUDIO	1	TRCV	2	--	--	0-3		
22	AUDIO	2	BACV	0	--	--	0-3		
22	AUDIO	3	MDCV	2	--	--	0-3		
22	AUDIO	4	SVHI	4	--	0-7	treble		
22	AUDIO	5	SVLO	4	--	0-7	bass		
22	AUDIO	6	MIDL	10	--	0-15			
22	AUDIO	7	LOFQ	0	--	0-7			
22	AUDIO	8	SBAS	7	--	0-15			
22	AUDIO	9	BSFQ	0	--	0-15			
22	AUDIO	10	STRE	9	--	0-15			
22	AUDIO	11	TRFQ	7	--	0-15			
22	AUDIO	12	PSEF	5	--	0-15			
22	AUDIO	13	AGCL	3	--	0-15			
22	AUDIO	14	BBE	1	--	0-1	(separate TruSurround, Simulated, SteadySound)		
22	AUDIO	15	BBEP	6	--	0-7	(separate TruSurround, Simulated, SteadySound)		
22	AUDIO	16	BBEL	3	--	0-7	(separate TruSurround, Simulated, SteadySound)		
22	AUDIO	17	BB2P	6	--	0-7	(separate TruSurround, Simulated, SteadySound)		
22	AUDIO	18	BB2L	3	--	0-7	(separate TruSurround, Simulated, SteadySound)		
22	AUDIO	19	TRS1	4	--	0-7			
22	AUDIO	20	TRS2	2	--	0-7			
23	SNNR	0	MODE	0	--	0-3			
23	SNNR	1	SNNR	0	--	0-7			
23	SNNR	2	WSLT	0	--	0-255	(depends on SNNR setting)		
23	SNNR	3	CPFG	0	--	0-15	(depends on SNNR setting)		
23	SNNR	4	CPFT	0	--	0-3	(depends on SNNR setting)		
23	SNNR	5	CCOR	0	--	0-3	(depends on SNNR setting)		

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Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p	Adjusted 480p	Range	Description
23	SNNR	6	CHCG	0	--			0-1	(depends on SNNR setting)
23	SNNR	7	CAPG	0	--			0-7	(depends on SNNR setting)
23	SNNR	8	3SHP	0	--			0-15	(depends on SNNR setting)
23	SNNR	9	NYNR	0	--			0-15	(depends on SNNR setting)
23	SNNR	10	NCNR	0	--			0-15	(depends on SNNR setting)
23	SNNR	11	NYMG	0	--			0-3	(depends on SNNR setting)
23	SNNR	12	NCMG	0	--			0-3	(depends on SNNR setting)
23	SNNR	13	NYLT	0	--			0-15	(depends on SNNR setting)
23	SNNR	14	NYNC	0	--			0-15	(depends on SNNR setting)
23	SNNR	15	NYCO	0	--			0-1	(depends on SNNR setting)
23	SNNR	16	7SHP	0	--			0-63	(depends on SNNR setting)
23	SNNR	17	7YF1	0	--			0-3	(depends on SNNR setting)
23	SNNR	18	7LTI	0	--			0-3	(depends on SNNR setting)
23	SNNR	19	7CTI	0	--			0-3	(depends on SNNR setting)
23	SNNR	20	7VML	0	--			0-15	(depends on SNNR setting)
23	SNNR	21	7VMC	0	--			0-3	(depends on SNNR setting)
23	SNNR	22	MIDD	0	--			0-63	(depends on SNNR setting)
24	CCD	0	HPRM	60	--			0-255	
24	CCD	1	HPRS	60	--			0-255	
24	CCD	2	YSYM	0	--			0-1	
24	CCD	3	CCDI	3	--			0-7	
24	CCD	4	CRIP	4	--			0-7	
24	CCD	5	PHLD	0	--			0-1	
24	CCD	6	CHMK	52	--			0-63	
24	CCD	7	LANG	2	--			0-15	Geometry - vertical line angle
24	CCD	8	DATA	0	--			0-1	Turn On/Off diags menu display header
24	CCD	9	VCHP	0	--			0-1	
24	CCD	10	CLMP	0	--			0-1	
24	CCD	11	SYSV	4	--			0-7	
24	CCD	12	ID1	1	--			0-1	
24	CCD	13	ID1M	0	--			0-7	
24	CCD	14	FPOL	0	--			0-1	
24	CCD	15	BWHT	0	--			0-1	
24	CCD	16	MESH	0	--			0-1	
24	CCD	17	BNBB	1	--			0-3	
24	CCD	18	BNBG	1	--			0-3	
24	CCD	19	BNBR	0	--			0-3	
24	CCD	20	CMP1	2	--			0-7	
24	CCD	21	CMP2	5	--			0-7	
24	CCD	22	CMP3	3	--			0-7	
24	CCD	23	CWHT	3	--			0-7	
24	CCD	24	VSDW	1	--			0-1	
24	CCD	25	BFRQ	0	--			0-1	
24	CCD	26	BPOS	0	--			0-1	
24	CCD	27	BFRM	1	--			0-1	
24	CCD	28	BTIM	0	--			0-1	
25	3DNR	0	WHCT	44	--			0-63	
25	3DNR	1	NIQM	1	--			0-1	
25	3DNR	2	CLPW	30	--			0-63	
25	3DNR	3	CLPP	80	--			0-255	
25	3DNR	4	YHBW	138	--			0-255	
25	3DNR	5	YBKL	0	--			0-15	
25	3DNR	6	YBKO	0	--			0-1	

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Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p	Adjusted 480p	Range	Description
25	3DNR	7	MUTE	0	--			0-1	
25	3DNR	8	YHBS	40	--			0-127	
25	3DNR	9	CHBW	138	--			0-255	
25	3DNR	10	CBKO	40	--			0-127	
25	3DNR	11	CHBO	0	--			0-1	
25	3DNR	12	VHBL	0	--			0-15	
25	3DNR	13	UHBL	0	--			0-15	
25	3DNR	14	UVDL	0	--			0-15	
25	3DNR	15	YDL	0	--			0-7	
25	3DNR	16	PVDI	0	--			0-1	
25	3DNR	17	PHDI	0	--			0-1	
25	3DNR	18	HDW	16	--			0-63	
25	3DNR	19	PVDO	0	--			0-1	
25	3DNR	20	PHDO	0	--			0-1	
25	3DNR	21	HST	54	--			0-255	
25	3DNR	22	VDL	0	--			0-15	
25	3DNR	23	VDW	3	--			0-15	
25	3DNR	24	NDET	0	--			0-15	
25	3DNR	25	NVP	2	--			0-15	
25	3DNR	26	NDTS	3	--			0-3	
25	3DNR	27	HROF	0	--			0-1	
25	3DNR	28	NDGW	9	--			0-15	
25	3DNR	29	UOFS	1	--			0-7	
25	3DNR	30	POT	0	--			0-3	
25	3DNR	31	UVF	0	--			0-1	
25	3DNR	32	APC	1	--			0-1	
25	3DNR	33	DAP	0	--			0-1	
25	3DNR	34	YLV	10(8)	8 (10)			0-15	(separate 480i/others, and picture mode)
25	3DNR	35	YST	0	--			0-1	
25	3DNR	36	YNT	1	--			0-1	
25	3DNR	37	YPL	1	--			0-1	
25	3DNR	38	YMV	0	--			0-1	
25	3DNR	39	YCR	3	--			0-31	(separate 480i/others, and picture mode)
25	3DNR	40	VOS	1	--			0-7	
25	3DNR	41	YMG	3	--			0-3	(separate 480i/others, and picture mode)
25	3DNR	42	YEG	0	--			0-1	
25	3DNR	43	YEL	6	--			0-15	(separate 480i/others, and picture mode)
25	3DNR	44	YLM	6	--			0-127	(separate 480i/others, and picture mode)
25	3DNR	45	CLV	10(8)	8 (10)			0-15	(separate 480i/others, and picture mode)
25	3DNR	46	CNT	1	--			0-1	
25	3DNR	47	CPL	1	--			0-1	
25	3DNR	48	CMG	3	--			0-3	(separate 480i/others, and picture mode)
25	3DNR	49	CCR	3	--			0-31	(separate 480i/others, and picture mode)
25	3DNR	50	CLM	6	--			0-127	(separate 480i/others, and picture mode)
25	3DNR	51	NVSL	20	--			0-255	
25	3DNR	52	NVSH	1	--			0-1	
25	3DNR	53	NHS	16	--			0-127	
25	3DNR	54	NVEL	244	--			0-255	
25	3DNR	55	NVEH	0	--			0-1	
25	3DNR	56	NHE	120	--			0-127	
25	3DNR	57	YNG	3	--			0-3	(separate 480i/others, and picture mode)
25	3DNR	58	COR	0	--			0-1	(separate 480i/others, and picture mode)
25	3DNR	59	LPF	0	--			0-1	(separate 480i/others, and picture mode)

**\*\*\* Warning: For Reference Only. USE AT YOUR OWN RISK! \*\*\***

Group	Category	#	Item	Default 1080i	Adjusted 1080i	Default 480p (	Adjusted 480p (	Range	Description
25	3DNR	60	YLT	6	--	--	--	0-15	(separate 480i/others, and picture mode)
25	3DNR	61	YNC	8	--	--	--	0-15	(separate 480i/others, and picture mode)
25	3DNR	62	YCO	0	--	--	--	0-1	(separate 480i/others, and picture mode)
25	3DNR	63	ADTH	0	--	--	--	0-1	
26	DRCV	0	MFVR	0	--	--	--	0-1	
26	DRCV	1	ISEL	1	--	--	--	0-1	
26	DRCV	2	ORES	128(133)		133 (128)		0-255	(separate pic mode and RF, Vid1-4, Vid 5-6, DVI)
26	DRCV	3	ONCT	128	--	--	--	0-255	(separate pic mode and RF, Vid1-4, Vid 5-6, DVI)
26	DRCV	4	AINI	0	--	--	--	0-127	DRC Palette Clarity - Noise reduction (horizontal in graph)
26	DRCV	5	BINI	24	--	--	--	0-127	DRC Palette Reality - Sharpness (vertical in graph)
26	DRCV	6	FMAT	0	--	--	--	0-1	
26	DRCV	7	FMTH	1	--	--	--	0-3	separate RF/others
26	DRCV	8	FSEL	1	--	--	--	0-1	
26	DRCV	9	CDLY	2	--	--	--	0-3	Chroma delay
26	DRCV	10	LMIT	0	--	--	--	0-1	
26	DRCV	11	LMLV	2	--	--	--	0-3	separate picture mode
26	DRCV	12	LMSL	1	--	--	--	0-1	
26	DRCV	13	VDLY	1	--	--	--	0-3	
26	DRCV	14	VDPR	3	--	--	--	0-3	
26	DRCV	15	WPLL	2	--	--	--	0-3	
26	DRCV	16	CRCT	0	--	--	--	0-1	
26	DRCV	17	NRA	0	--	--	--	0-255	depends on SNNR
26	DRCV	18	NRB	128	--	--	--	0-255	depends on SNNR
27	OP	0	DLY1	4	--	--	--	0-31	
27	OP	1	DLY2	12	--	--	--	0-31	
27	OP	2	DLY3	7	--	--	--	0-15	
27	OP	3	OSHD	17	--	--	--	0-127	On Screen Display Offset
27	OP	4	HDPT	1	--	--	--	0-1	separate picture mode
27	OP	5	MSBG	0	--	--	--	0-255	
27	OP	6	AACK	2	--	--	--	0-3	
27	OP	7	RAMW	0	--	--	--	0-3	(NS)
28	ID	0	IDO	89	--	--	--	0-255	
28	ID	1	ID1	255	--	--	--	0-255	
28	ID	2	ID2	239	--	--	--	0-255	
28	ID	3	ID3	111	--	--	--	0-255	(95=Canada Vchip setting)
28	ID	4	ID4	203	--	--	--	0-255	
28	ID	5	ID5	251	--	--	--	0-255	
28	ID	6	ID6	254	--	--	--	0-255	
28	ID	7	ID7	29	--	--	--	0-255	

**Notes:**

Enter Service Mode = [PowerOff] - [DISPLAY] - [5] - [VOL+] - [PowerOn]

Menu Next = [1]

Menu Previous = [4]

Category Next = [2]

Category Previous = [5]

Adjust Up = [3]

Adjust Down = [6]

Save New Settings = [MUTE] - [ENTER]

Restore Factory Defaults = [8] - [ENTER]

Exit Service Mode = [PowerOff]

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